	Application No.	Applicant(s)		
·	10/635,344 DELAHOY ET AL.			
Notice of Allowability	Examiner	Art Unit		
	Rodney G. McDonald	1753		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in to or other appropriate communities. This application is su	this application. If not including the control of t	ded e course. THIS	
1. This communication is responsive to After Final Amendme	ent filed 2-6-07.			
2. The allowed claim(s) is/are 1,3-5 and 7-54.				
 Acknowledgment is made of a claim for foreign priority upon a)	e been received. e been received in Application	No	ation from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the re	equirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv			NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	•		
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Review	(PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date	_·	•		
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	n the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in	* * *	_	e back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			Note the	
•				
Attachment(s)	E Notice of late	and Data at American		
1. Notice of References Cited (PTO-892)	<u>—</u>	rmal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./M	6. ☑ Interview Summary (PTO-413), Paper No./Mail Date <u>2-20-07</u> .		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	_	mendment/Comment		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	<u>_</u>	8. Examiner's Statement of Reasons for Allowance		
	9.	RODNEY G. MCD	ONALD	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Proscia on February 20, 2007.

The application has been amended as follows:

Cancel claim 2.

Claim 3, line 1, replace "non-laminarly" with "turbulently".

Claim 4, line 1, replace "non-laminarly" with "turbulently".

Claim 5, line 1, replace "non-laminarly" with "turbulently".

The following is an examiner's statement of reasons for allowance:

Claims 1, 3-5, 7-21 are allowable over the prior art of record because the prior art of record does not teach the claimed method for sputter coating including providing a channel for gas to flow through, the channel defined by a channel defining surface wherein one or more portions of the channel-defining surface include at least one target material and flowing gas through the channel wherein at least a portion of the gas is a turbulently flowing gas with a Reynolds number greater than 2000, the gas flowing from a manifold placed within the channel.

Claims 22-35 are allowable over the prior art of record because the prior art of record does not teach a method of depositing an oxide film on a substrate in a sputter

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coating reactor including providing a channel for a working gas to flow through, the channel defined by a channel-defining surface wherein one or more portions of the channel-defining surface include at least one target material and flowing the working gas through the channel wherein at least a portion of the working gas flows turbulently with a Reynolds number greater than 2000, the working gas flowing form a manifold placed within the channel.

Claims 36-46 are allowable over the prior art of record because the prior art of record does not teach a sputter-coating system for coating a substrate the sputter coating system including an electrode having a channel-defining surface that defines a channel wherein one or more portions of the channel-defining surface contains the at least one target material and a source of non-laminarly flowing working gas, the working gas flowing from a manifold placed within the channel such that at least a portion of the working gas flows turbulently with a Reynolds number greater than 2000.

Claims 47-54 are allowable over the prior art of record because the prior art of record does not teach a method for depositing nitride film on a substrate in a sputter coating reactor including providing a channel for a working gas to flow through, the channel defined by a channel-defining surface wherein one or more portions of the channel-defining surface include at least one target material and flowing the working gas through the channel wherein at least a portion of the working gas flows turbulently with Reynolds number greater than 2000, the gas flowing from a manifold placed within the channel, the working gas flowing from a manifold placed within the channel.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Tholes & Madamels Rodney G. McDonald **Primary Examiner** Art Unit 1753

RM

February 20, 2007